C-139 BASIN ANNUAL REPORT – CERTIFICATION OF BMP IMPLEMENTATION

Due FEBRUARY 3, 2003

PERMIT NO: _____ PERMITTEE/LANDOWNER: _____ LESSEE: _____

COMPLETE ONE BMP IMPLEMENTATION REPORT FOR EACH CROP GROWN. Check "✓" the applicable boxes in column 1. Sign the certification statement below.	
INDICATE CROP/LANDUSE FOR THIS REPORT:	❒ Check here if there is a change to your permitted BMP Plan
LIST THE FARMS/BASIN IDs FOR WHICH THIS REPORT APPLIES:	

NUTRIENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S)

Points	"✓"	Nutrient Control Practice	Nutrient Control Practice Description	BMP Implementation Documentation
2 ½		Nutrient application control*	Uniform and controlled boundary application of nutrient (e.g. banding at the root zone or side-dressing; pneumatic controlled-edge application such as AIRMAX; minimum 4' setback from canals with no overlapping application for each application method; fertilization through low volume irrigation system applied at root zone (fertigation); controlled placement by fertilization under plastic).	Documentation demonstrating required BMP implementation shall be maintained on site for District review, as applicable. Examples of documentation are: • Fertilizer application work orders • Training protocols/ company guidelines • Attendance sheets for training • Maps indicating crop types/locations • Maps indicating fertilizer application rates and areas • Fertilizer delivery receipts • Soil test results • Plant tissue analysis results • Crop specific fertilizer recommendations *Field Verification*, when applicable, can include observation of: • Fertilizer banding equipment • Fertilizer loading areas • No on-site fertilizer storage
2 ½		Nutrient spill prevention*	Formal spill prevention protocols (storage, handling, transfer, education/instruction).	
2 ½		Manage successive vegetable planting to minimize P	Avoid successive planting of vegetables or other crops having high P needs to avoid P build up in soils. Includes successive planting with no successive P application.	
2 ½		Recommended nutrient application based on plant tissue analysis	Avoid excess application of P by determining requirements of plant and following standard recommendations for application rates (crop specific).	
5		**Citrus only** - Recommended nutrient application based on plant tissue analysis	Avoid excess application of P by determining requirements of plant and following standard recommendations for application rates (**Citrus**).	
5		Recommended nutrient application based on soil testing*	Avoid excess nutrient application by determining P requirements of soil and following standard recommendations for application rates (crop specific).	
5		Split nutrient application	More efficient plant uptake of P by applying small portions of total recommended P at various times during the growing season. Not to exceed total recommendation based on soil test.	
5		Slow release P fertilizer	Avoid flushing excess P from soil by using specially treated fertilizer that releases P to the plant over time.	
5		Reduce P fertilization	Reduce the P application rate by 30% below the recommendation based on soil tests. Provide basis for reduction credit.	
15		No nutrients imported via direct land application	No Application of P, in any form, to the soil for amendments of plant nutrients.	
15		No nutrients imported directly through cattle feed	No P import to the basin through cattle feed (note: native range is not excluded by use of mineral supplements or molasses).	
15/25/35		Nutrient Management Plan (Levels I / II / III)	Manage the amount, source, placement, form, and timing of the application of nutrients and soil amendments.	

*Indicates a BMP required for direct land application of phosphorous

I certify that the indicated BMPs have been implemented in accordance with the permit requirements and that the appropriate staff have been instructed on the BMPs and the conditions of the permit. Farm records showing specific details of the implementation of each BMP as described herein will be provided during the on-site inspection.

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WATER MANAGEMENT PRACTICES BEST MANAGEMENT PRACTICES (BMP'S)

Points	"✓"	Water Management Practice	Water Management Practice Description	BMP Implementation Documentation
5 10		½ inch water detention 1 inch water detention	Delayed discharge (based on measuring daily rain events using a rain gage)	Documentation demonstrating required BMP implementation shall be maintained on site for District review, as applicable. Examples of documentation are: • Pump logs/staff gage readings • Pump calibration records • Rain gage readings • Work orders for reservoir construction • Permits for reservoir construction • Photographs • Maps *Field Verification,* when applicable, can include observation of: • Visual inspection of rain gages • Visual inspection of pump stations • Visual inspection of holding reservoirs • Observation of flooded fallow fields • Internal booster pumps • Internal culverts for rerouting of water
5		Improvements to water management system infrastructure to further increase water quality treatment	Recirculation of water internal to the drainage of the farm to improve water quality prior to off-site discharge (particularly discharge from rice and vegetables), includes: fallow field flood water with no direct discharge (instead allow to "drain" via evapotranspiration, seepage, use as irrigation water)	
5		Reduced flow through water table management	Decreasing discharge by optimizing drainage and irrigation schedules and/or by using low volume irrigation methods, e.g. drip irrigation	
10		Approved and operational surface water reservoir	Properly permitted, constructed and maintained storage system meeting specified ERP Basis of Review criteria (version in effect at the time of permitting or in effect at the time of permit modification for modified systems): System meets Section 5.2.1 Water Quality Criteria – Volumetric Requirements	
10			System meets Section 6.2 Water Quantity Criteria – Discharge Rates	
15			System meets Section 6.3 Water Quantity Criteria – Design Storm	
15		Temporary holding pond	Temporary agricultural activities (as described in Chapter 40E-400 F.A.C.) with a properly constructed and permitted temporary holding pond	
15		No direct discharge	Overland sheet flow over entire property, no direct discharge	

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PARTICULATE MATTER AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S)

Points	"✓"	Check at least the Minimum Number of Required Particulate Matter and Sediment Controls	BMP Implementation Documentation
2 ½ points for any 2		Control erosion by leveling fields	Documentation demonstrating required BMP implementation shall be maintained on site for District review, as applicable. Examples of documentation are: • Work orders • Maps • Material delivery tickets • Laser leveling work orders • Sump Maintenance records • Dredging/Canal cleaning records • Culvert installation work orders • Photographs • As-built records • Aquatic weed spraying records • Grass mowing work orders *Field Verification,* when applicable, can include observation of: • Vegetation growth in fields/on berms • Cover crops • Fallow fields • Dredged material stockpiles • Culverts with risers at connections • Canal widening indicating sump areas • Floating debris barriers
		Minimize sediment transport with slow velocity in main canal near discharge structure	
		Reduce soil erosion using grassed swales and field ditch connections to laterals	
		Minimize sediment transport into canals by constructing ditch bank berms	
		Minimize sediment build-up by implementing a canal cleaning program	
5 points for any 4		Minimize P from plants by controlling aquatic weed control (P source) at main discharge locations	
		Reduce sediments transported offsite by maintaining field ditch drainage sumps to trap sediments	
		Reduce debris (P source) leaving site by installing debris barriers at discharge locations	
10 points for any 6		Reduce soil erosion with constructed ditch bank stabilization	
		Minimize sediment transport with slow field ditch drainage near discharge pumps/structure	
		Reduce sediments transported offsite by maintaining a sump/trap upstream of drainage structure	
		Maintain sustainable forage growth on pasture to reduce erosion/range seedings	
15 points for any 8		Reduce sediments transported offsite by stabilizing soil through infrastructure improvements at canal/ditch intersections (e.g. flexible plastic pipe, polymer treatment)	
		Reduce soil erosion with cover crops	
		Minimize sediment transport by raising culvert bottoms above all ditch bottoms	
		Reduce soil erosion with vegetation on ditch banks	

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PASTURE MANAGEMENT BEST MANAGEMENT PRACTICES (BMP'S)

Points	"✓"	Description	BMP Implementation Documentation
2 ½		Restricted placement of feeders to reduce "hot spots" near drainage ditches, canals and discharge locations	Documentation demonstrating required BMP implementation shall be maintained on site for District review, as applicable. Examples of documentation are: • Fencing installation work orders • Maps indicating location of feeders, cowpens, watering holes, shade structures, etc. • Cattle counts • Feed/supplement manufacturer's content labels • Rotation schedules • Photographs *Field Verification,* when applicable, can include observation of: • Visual inspection of fencing • Visual inspection of adjacent canals • Visual inspection of the location of feeders, cowpens, watering holes, shade structures, etc. • Visual inspection of discharge structures
2 ½		Restricted placement of cowpens to reduce "hot spots" near drainage ditches, canals and discharge locations	
2 ½		Restricted placement of feed and water to reduce "hot spots" near drainage ditches, canals and discharge locations	
2 ½		Provide shade structures away from drainage and to minimize cattle in waterways	
5		Low cattle density (1 head per 2 acres, non-irrigated pasture)	
5		Reduced P in feed minimum of 20% below accepted standard requirements	
10		Restrict cattle in waterways through fencing of canals in a manner that protects the discharge water quality	

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